



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 – (217) 782-3397
JAMES R. THOMPSON CENTER, 100 WEST RANDOLPH, SUITE 11-300, CHICAGO, IL 60601 – (312) 814-6026

847-608-3131
FAX: 847-608-3139

August 17, 2011

Stateville Correctional Center Public Water Supply
c/o Mr. William Weilding, Chief Engineer
Stateville Correctional Facility, P.O. Box 112
Joliet, Illinois 60434

Re: **Stateville Correctional Center – IL1977910**
2011 Public Water Supply Inspection Report

Dear Mr. Weilding,

This letter is in response to your August 15, 2011 letter responding to our recent sanitary survey conducted in June 28, 2011.

We acknowledge that the water supply has already submitted the cross-connection control ordinance to Springfield, preparing operating permit application for the missing permit, and re-route the sump pump discharge piping.

I take this opportunity to thank you for your response to our letter. If you have additional questions or comments, please contact me at 847-608-3131.

Sincerely,

Shibu Vazha, Environmental Protection Engineer
Elgin Regional Office, Division of Public Water Supplies
Illinois Environmental Protection Agency

cc: Marcus Hardy, Warden
Michael Studer, Responsible Operator in Charge
Dave McMillan, Manager, FOS-Springfield
Elgin File



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RECEIVED
REGION 2

AUG 15 2011

Division of Public Water Supplies
State of Illinois
Environmental Protection Agency

847-608-3131

FAX: 847-608-3139

June 30, 2011

Stateville Correctional Center Public Water Supply
c/o Mr. Marcus Hardy, Warden
Stateville Correctional Facility, P.O. Box 112
Joliet, Illinois 60434

Re: **Stateville Correctional Center – IL1977910**
2011 Public Water Supply Inspection Report



Dear Mr. Hardy:

An engineering evaluation of the **Stateville Correctional Center** community water supply has been completed. Field inspection was made on June 28, 2011 by Mr. Shibu Vazha of this office. Mr. Michael Studer was present during this inspection.

The Illinois Environmental Protection Agency conducts periodic inspections of all community water supplies to determine if their ongoing programs for monitoring, maintaining the water supply, and providing appropriate information to the water users meet the requirements of the Illinois Pollution Control Board's public water supply regulations and related standards. The reason for this work is that if the people in a community are to cooperate and use a common water supply, they must feel that their system is properly constructed, operated and maintained.

Aspects of the water system that may not comply with current standards or regulatory requirements are detailed in attachment "A" of this letter. **Please respond to these findings in writing within 45 days.** Your response should describe the steps that have been, or will be taken, including an estimated date of completion (not to exceed 180 days), to correct these deficiencies.

This letter is NOT a violation notice as specified in Section 31(a)(1) of the Illinois Environmental Protection Act (415 ILCS 5/31(a)(1)). However, if an acceptable response is not received within 45 days, the Illinois Environmental Protection Agency may issue a formal violation notice pursuant to Section 31(a)(1) of the Act.

ATTACHMENT "A"

VIOLATIONS AND DEFICIENCIES

The current evaluation of your community water supply indicates that the following conditions appear to violate Title IV of the Illinois Environmental Protection Act 415 ILCS 5/1-57.17 (1999) (The Act), 35 Illinois Administrative Code (35 IAC), the Recommended Standards for Water Works (1982) (Standards) and related standards. A written response outlining corrective action is required to be submitted to this office within 45 days.

1) Managerial Capacity – Cross-Connection Control Program Deficiency

Stateville Correctional Center does not have a cross connection control program approved by the Illinois EPA. It is acknowledged that Stateville adopted a Cross Connection and backflow protection policy, or Standard Operating Procedure, and administers the cross connection control program requirements. However, the following requirement of the cross-connection program need to be completed:

a) Please send a copy of the cross-connection control policy or SOP and an outline of the cross-connection control program to Dave McMillan, IEPA-BOW-PWS-FOS, 1021 North Grand Avenue East, P.O. Box 19276, Springfield, IL 62794-9276 for Illinois EPA approval.

Correct the above cross-connection deficiency to comply with the provisions of cross-connection control program requirements. Please refer to the attached cross-connection control guidance document.

(The Act, Section 18; 35 IAC, Sections 653.801 and 653.802)

2) Managerial Capacity – Timely Submittal of Operating Permit Application:

Agency records show that an operating permit has been missing for one construction permit (permit # C2000-0420) issued in the year 1999. We would like to remind you that an operating permit must be obtained from the Agency permit section before any new construction project is placed into service.

Contact the Permit Section at phone number 217-782-1724 to obtain replacement operating permit applications and necessary sample bottles for any completed project where an operating permit has not been obtained.

(The Act, Sections 15 and 18; and 35 IAC, Part 602 and Section 652.201)

3) Managerial Capacity – Cross-Connection at 750K Gallon Elevated Tank:

The following cross-connection at the 750K gallon elevated tank must be removed:

A sump pump is located below the elevated tank to pump out excess ground water from the base of the tank. The sump pump discharge pipe is tied into the elevated tank overflow such that both are discharged through a common pipeline. A block in the overflow pipe could allow the sump pump discharge (raw ground water) to enter the finished water storage area. Also, cross-connection between potable and waste water system must be removed to provide safe drinking water for the users.

(The Act, Section 18; 35 IAC, Sections 607.104, 653.801, 653.802 and 653.803)

Stateville Correctional Center – 1977910

Dear Mr. Vazha, below is our response to your inspection findings of our water system that you made at Stateville Correctional Center on June 2011.

Item # 1 Cross Connection Program Deficiency:

We developed and approved a Cross Connection Program Document which has been mail to the Illinois EPA in care of Dave McMillan.

Item # 2 Timely Submittal of Operational Permit Application:

The operational permit for the construction of the water system (C2000-0420) in the year of 1999 has not been found in the archives by the Illinois Capital Development Board staff. We have ordered a new Permit application from the Il. EPA which we shall start the process all over.

Item # 3 Cross Connection at the Elevated Tank:

The sump pump discharge piping was disconnected from the water towers over flow piping and a new sump pump discharge piping was installed on July 28, 2011.



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June 30, 2011

Stateville Correctional Center Public Water Supply
c/o Mr. Marcus Hardy, Warden
Stateville Correctional Facility, P.O. Box 112
Joliet, Illinois 60434

Re: **Stateville Correctional Center – IL1977910**
2011 Public Water Supply Inspection Report

Dear Mr. Hardy:

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Stateville Correctional Center - IL 197-7910
June 30, 2011

The Illinois Pollution Control Board Regulations can be downloaded from the internet at www.ipcb.state.il.us. The *Recommended Standards for Water Works* is available from Health Education Services, P.O. Box 7126, Albany, New York, 12224. (Phone 518-439-7286 / FAX 518 - 439-7022). This document may also be purchased through the internet at www.hes.org

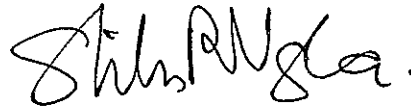
We also request that you review the enclosed "Public Water Supply Data Sheets". Monitoring requirements are determined by the information included on these data sheets, making it vital that you inform us of any errors or other inaccuracies.

We appreciate the cooperation and courtesy extended during this survey. Questions or comments regarding this evaluation should be directed to Shibu Vazha at 847-608-3137.

Very truly yours,



Segundo Nallatan, P.E.
Regional Manager
Division of Public Water Supplies
Illinois Environmental Protection Agency



Shibu Vazha
Environmental Protection Engineer

cc: Michael Studer, Responsible Operator in Charge
William Weidling, Chief Engineer
Will County Health Department
Illinois State Water Survey

ATTACHMENT "A"

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(The Act, Section 18; 35 IAC, Sections 653.801 and 653.802)

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(The Act, Section 18; 35 IAC, Sections 607.104, 653.801, 653.802 and 653.803)

Illinois Environmental Protection Agency

Bureau of Water - Division of Public Water Supplies
Inspection Report - Elgin Regional Office

FACILITY NAME	Stateville Correctional Center	FACILITY NUMBER	IL1977910	
PLANT PHONE	815-727-3607, x-7566	COUNTY	Will	
INSPECTION DATE	June 28, 2011	INSPECTED BY:	Shibu Vazha	
SEND CORRESPONDENCE TO		EXEMPTION / LABORATORY FEE STATUS		
NAME OR ENTITY	Marcus Hardy	CHLORINE (Date)	No exemption	
ADDRESS	P.O Box 112			
CITY, STATE, ZIP	Joliet, Illinois 60434	LAB FEE PARTICIPANT (Y/N)	Yes	
CONTACT INFORMATION				
CERTIFIED OPERATOR	Michael Studer	CLASS	B	NUMBER NA
PHONE:	815-727-3607, x-7566	FAX:	815-727-4322	
PAGER:	None	OTHER:	None	
OWNER - RESPONSIBLE PERSONNEL	Marcus Hardy	TITLE OR POSITION		Warden
PHONE:	NA	FAX:	NA	
OTHER CONTACTS	NAME	TITLE OR POSITION	PHONE	
	William Weidling	Chief Engineer	815-727-3607, x-7674	
HOME PAGE ADDRESS	None			
FACILITY STATUS				
Open	x	Critical Review	Restricted Status	Reason
Date				
BRIEF DESCRIPTION OF SYSTEM AND SERVICE AREA				
<p>Stateville Correctional Center PWS is located in northwestern Will County, Illinois. This PWS has 18 service connections (buildings) serving approximately 3,500 prisoners and staffs.</p> <p>Primary source of water for this facility is treated ground water obtained under direct pressure from Crest Hill through CC05. A 750K gallon elevated tank floats on this system. This facility does not provide any treatment. The free chlorine residual measured in the distribution during the inspection yielded 0.31 mg/l.</p> <p>This facility also has an emergency interconnection (ground water) with Crest Hill. The facility has a sanitary sewer system. The facility's water distribution system consists of 1,500 ft of ductile iron water distribution mains (12-inches in diameter).</p>				
SERVICE CONNECTIONS				# METERS
NUMBER OF DIRECT SERVICES		18	100% metered	
DIRECT SERVICES OUTSIDE CORPORATE LIMITS				
Residential Customers		18		
Commercial Customers				
Industrial Customers				
SATELLITE WATER SYSTEMS / INTERCONNECTIONS		FACILITY NUMBER	Source	Customer
Crest Hill (emergency interconnection)		197-0250	x	

ADEQUACY OF SUPPLY											
DATE RANGE		FROM	03/10	TO	02/11	PLANT CAPACITY (MGD)		1.5 MGD *			
LIMITING FACTOR FOR PLANT CAPACITY								* - Capacity of CC05			
ANNUAL PUMPAGE (MG)		RAW		160.97		FINISHED		160.97			
AVERAGE DAILY (MGD)		RAW		0.441		FINISHED		0.441			
MAX 30-Day Average (MGD)		RAW		0.471		FINISHED		0.471 (July 2010)			
POPULATION		3,500		Estimated or Census Data				Provided by the facility			
		How was Estimated Population Figured?				Not applicable					
AVERAGE DAILY PER CAPITA USAGE		126 g/p/d		Time to Produce Average Daily (Finished)				7.1 hours			
						Time to Produce MAX 30- Day Average (Finished)				7.5 hours	
TREATMENT APPLICATION POINT SUMMARY											
TAP #	Location or Description	Source Name	Source ID	Status (A, I or X)	Well Depth	Casing Length	Aquifer	Current Production (GPM)	GWUDI Eval. (DATE)	Waivers	
										VOC	SOC
CC05	Consecutive connection with Crest Hill	Crest Hill	197-7910	A	NA	NA	Shallow well water	1,042**	NA	N/A	N/A
Source Use (Disconnected sources, backups, seasonal use, etc)		This CC is the only source of water for this supply. Primary source of water for this facility is treated ground water obtained under direct pressure from Crest Hill through CC05.									
Bacteriological History (Raw water samples)		All clean distribution samples for the past 12 months.									
TREATMENT		Disinfectant Used		Fluoridation Chemical Used		Other Chemical Addition		Other Treatment			
		None		None		None		None			
		Installation Deficiencies						General Condition of Plant			
		1) Cross-connection control program is not approved by IEPA.. 2) Missing operating permit. 3) Potable and waste water cross-connection at 750K gallon elevated tank.						Satisfactory			
Other Comments regarding this TAP		1) ** - Maximum available ground water from Crest Hill is 1,042 gpm (1.5 MGD). 2) This PWS has a hot water re-circulation system which consists of a water softener on stand-by (currently off-line). But this hot water re-circulation system is removed from flow diagram because it uses a plumbing system separate from the drinking water system and therefore, not part of the PWS. 3) The free chlorine residual measured in the distribution during the inspection is 0.31 mg/l.						Emergency Power		None	

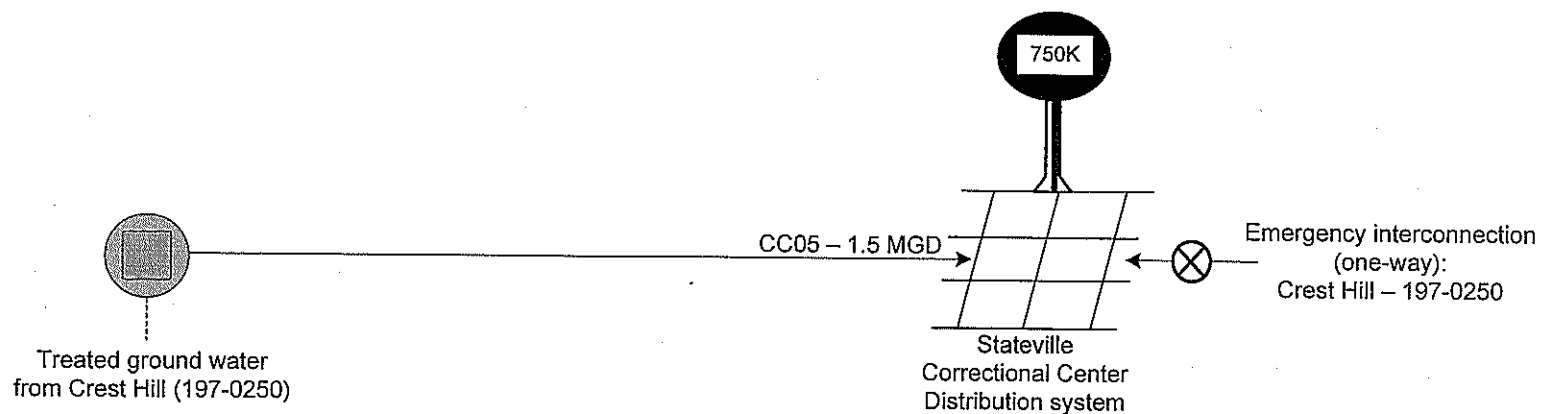
Service Area / Pressure Zone / Distribution System												
Water Source(s)				Primary source: CC05 (consecutive connection with Crest Hill)								
Location or Description				Service Area Population		No. of Service Connections		Finished Water Storage (Show Capacities)				
								Ground	Elevated	Hydropneumatic		
Stateville Correctional Center Distribution System				3,500		18			750K			
Maximum System Pressure			Location		Minimum System Pressure			Location			Free Chlorine Residual (mg/l)	Location
71 psi			CC05		50 psi			Far end of the system			0.31 mg/l	Distribution
Flushing Program				Fire Protection Provided		Current Map Available		Valve Maintenance Program			Notes and Other Observations	
None	Yearly	2 x year	More Often	No	Yes	No	Yes	No Valves	No Program	OK		
		x**			x		x				x**	** - This facility flushes the hydrants bi-annually and exercises the valves as needed.
Operating Reports / Records												
Monthly Reports Being Submitted			Content of Monthly Reports									
			Report for each TAP		Daily Production from Each Well		Daily Measured Residuals		Daily Dosage Calculations		Notes and Other Observations	
Yes	No	Late	Yes	No	Yes	No	Yes	No	Yes	No		
x*			x		N/A		x		N/A			
Cross Connection control Ordinance											* - Monthly operating reports are submitted timely to this office. *** If any private wells exist in the service area, the facility should encourage sealing them or enforce RPZ installation to prevent backflow and require annual RPZ inspection by certified CCCDI plumbing inspector.	
Does the system have an ordinance		Date Approved (by IEPA)		Program Enforced		Do Private Wells Exist in the Service Area						
Yes	No			Yes	No	Yes		No				
x		Not IEPA approved		x				x ***				

Monitoring											
Bacteriological Summary											
Monitoring History (Last 12 Months)				Primary Lab		Phone		FAX			
	Raw	Finished	Distribution								
Number of Samples	0	0	48								
Number Satisfactory	0	0	48	Secondary Lab		Phone		FAX			
Number Invalid	0	0	0								
Number Unsatisfactory	0	0	0								
Fecal / E. Coli. Positive	0	0	0	Coliform Monitoring Plan Approved		All Major Portions of system included in Plan		Chlorine Residuals taken at Sample Sites		Monitoring Free Residual	
				Yes	No	Yes	No	Yes	No	Yes	No
Monitoring Violations	None	MCL Violations	None	x		x		x		x	
Fluoridation Summary (Last 12 months)											
TAP No	No. of Samples	Minimum (mg/l)	Maximum (mg/l)	Average	Violations (list months)		Notes and Observations (Fluoridation)				
CC05*							* - Crest Hill maintains adequate fluoride concentration in finished water.				
Distribution Based Chemical Monitoring											
D/DBP			Distribution: Sample sets from 01/08 to 05/11 show TTHM and HAA5 results within the MCL's of 80 ppb ad 60 ppb, respectively.								
Pb/Cu			<p>Lead: Distribution: Sample results from 01/08 to 05/11 show no lead action level (AL) exceedances.</p> <p>Copper: Illinois EPA issued a non-compliance advisory (NCA) to Stateville in 2005 to address the exceedance of copper action level. Stateville's compliance agreement was approved by IEPA in January 2007. As part of the compliance agreement, Crest Hill (seller) added polyphosphate to achieve optimal corrosion control treatment (OCCT). <u>Follow-up copper sampling results are below:</u></p> <p><u>Sample sets from 01/08 to 05/11 showed the following copper action levels exceedances:</u></p> <p>a) 03/09: 3 of 20 samples collected exceeded copper action level of 1.3 mg/l (means only 85% of sample set showed compliance).</p> <p>b) 10/09: 5 of 20 samples collected exceeded copper action level of 1.3 mg/l (means only 75% of sample set showed compliance).</p> <p><u>But most recent sample results show no copper action level (AL) exceedances.</u></p> <p>a) 06/10: 2 of 20 samples collected exceeded copper action level of 1.3 mg/l (means <u>90% of sample set showed compliance</u> - OK).</p> <p>b) 10/10: 0 of 20 samples collected exceeded copper action level of 1.3 mg/l (means <u>100% of sample set showed compliance</u> - OK).</p> <p>Now the supply is on annual lead and copper sampling. If the annual sampling shows compliance, they can return to triennial sampling.</p>								

Viability / Financial Management			
Service Fee (Minimum Charge)	NA	Other source(s) of income used to maintain the water system	Yes
Direct Charge (cost per 1,000 gallons)	NA	Does the Utility have an ACTIVE program to ensure all customers pay bills?	Yes
Billing Frequency	NA	Does the utility have a fund to cover major repairs?	Yes
ICC Regulated? (Y/N)	No	Name and phone no. of person responsible for system repairs.	Michael Studer
Date of Last Rate Increase	NA	Name and Phone No. of Person Responsible for Financial Management of the Water System	Marcus Hardy
		Major Water Supply Concerns expressed by Residents/ Customers.	None
What was the most recent major repair or improvement involving This Water System (Include Dates)			
All water system infrastructures remained the same as in 2008.			
Planned, Anticipated or Needed Upgrades and Improvements (Include dates or timeframe if known)	Needed improvements: See "Attachment A" for details.		
Deficiencies noted in Attachment "A" in the last inspection (April 22, 2008)			
Deficiencies from last inspection			Corrected (Yes/No)
1) Monthly operating reports not submitted.			Yes
2) Cross-connection control program not approved by IEPA.			No
Reminders and Recommendations noted in Attachment "B" in the last inspection (April 22, 2008)			
Reminders and Recommendations from last inspection			Corrected (Yes/No)
1) Lead and copper sampling and related water quality parameters reporting reminder.			Yes
2) Isolate the water softener to prevent contaminants entering drinking water system.			Yes; softener is not part of drinking water system (separate plumbing)

Service connections: 18
Population: 3,500

Public Water System Flow Chart
Stateville Correctional Center 197-7910
June 30, 2011



System facts and changes:

- 1) This PWS has a hot water re-circulation system which consists of a water softener on stand-by (currently off-line). But this hot water re-circulation system is removed from flow diagram because it uses a plumbing system separate from the drinking water system and therefore, not part of the PWS.
- 2) The supply does not provide any chemical treatment.